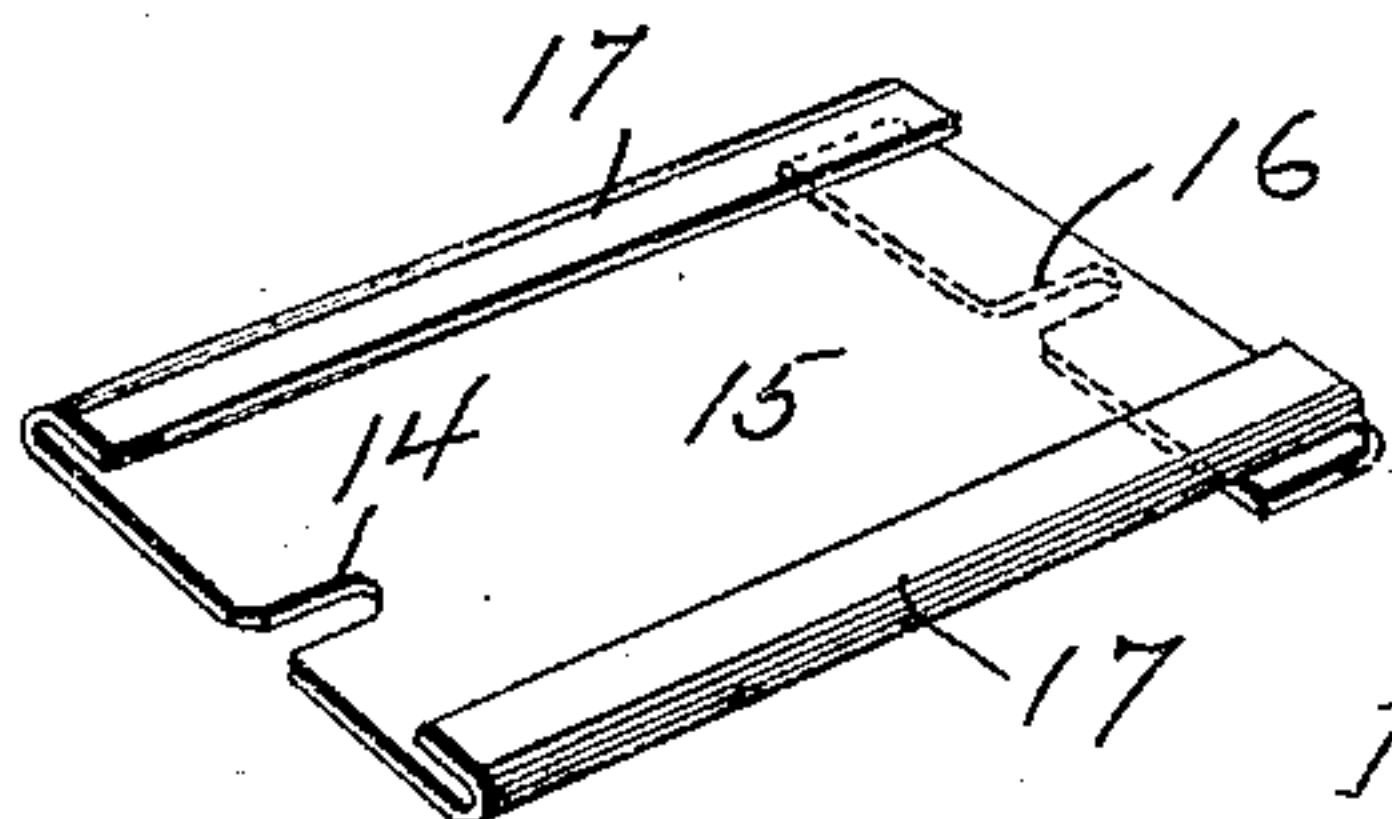
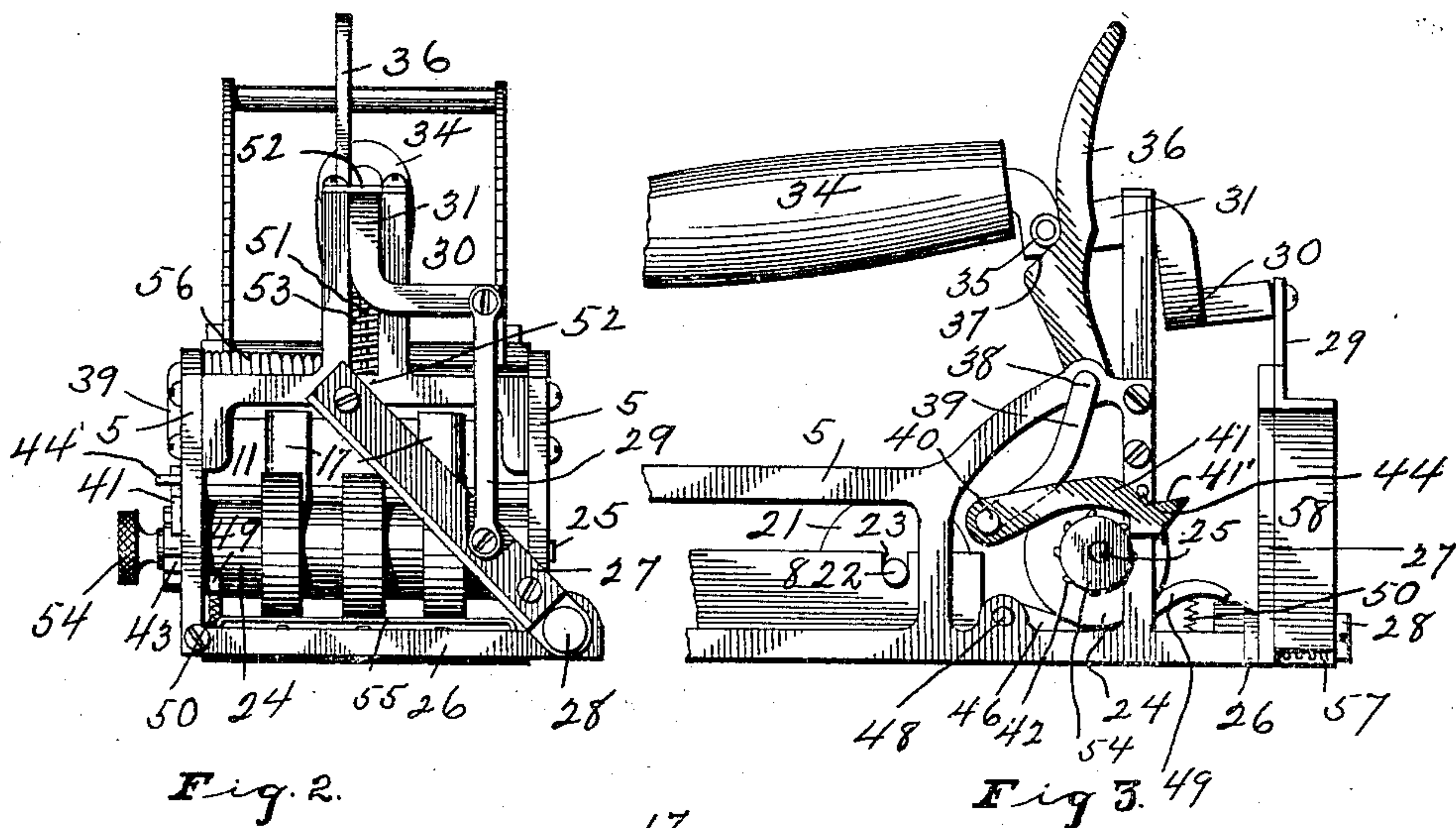
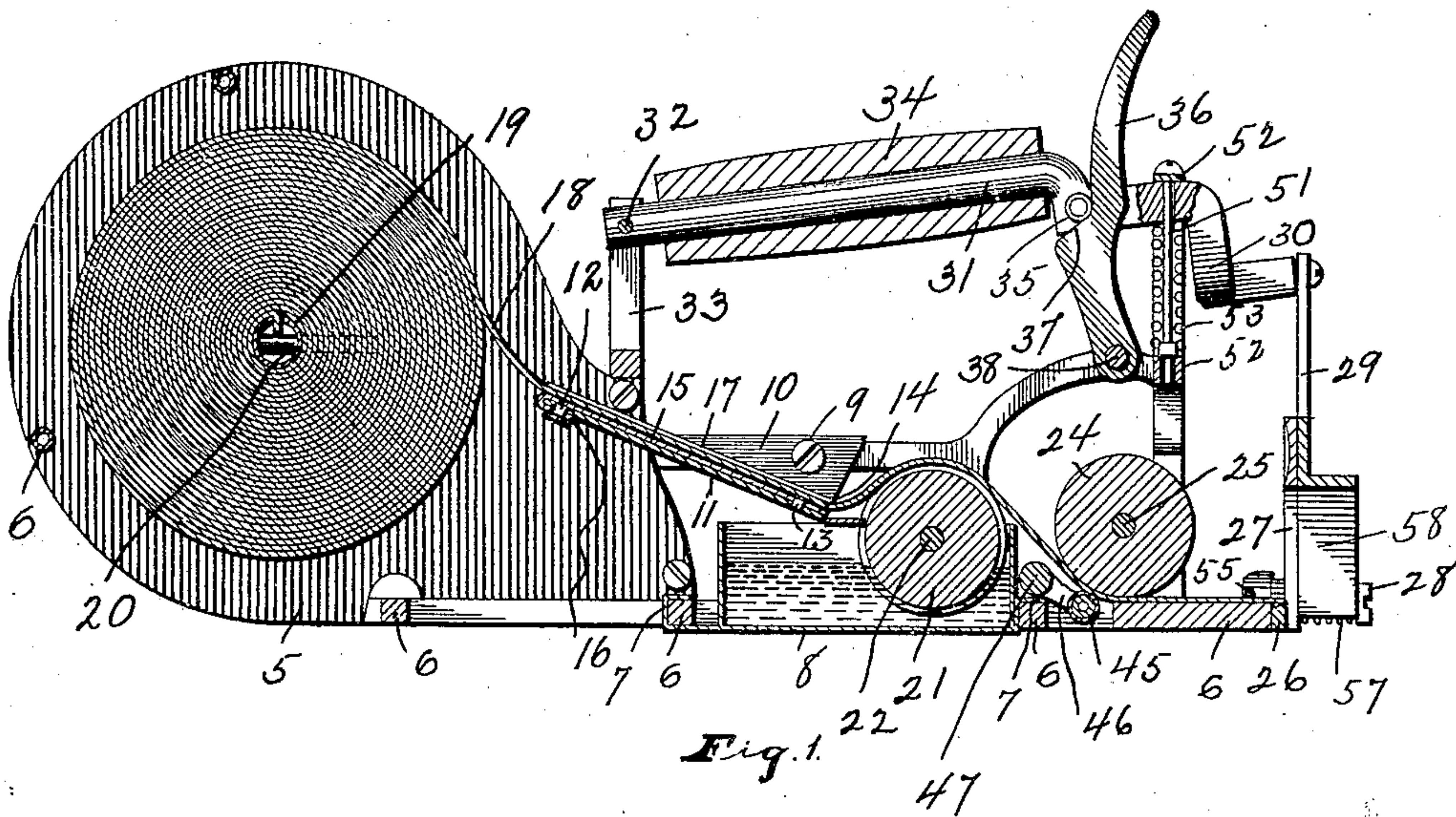


R. D. SIMPSON.
MAILING OR STAMPING MACHINE.
APPLICATION FILED OCT. 24, 1907.

898,609.

Patented Sept. 15, 1908.



Witnesses

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UNITED STATES PATENT OFFICE.

ROBERT D. SIMPSON, OF COLUMBUS, OHIO, ASSIGNOR TO THE MAIN AUTOMATIC MAILING MACHINE COMPANY, OF COLUMBUS, OHIO, A CORPORATION OF OHIO.

MAILING OR STAMPING MACHINE.

No. 898,609.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed October 24, 1907. Serial No. 398,918.

To all whom it may concern:

Be it known that I, ROBERT D. SIMPSON, citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Mailing or Stamping Machines, of which the following is a specification.

My invention relates to a mailing or stamping machine and has for its object the provision of a device of this character adapted to secure names from a mailing list, upon newspapers or other articles to be mailed or to stamp letters with postage stamps, as may be desired.

Further objects and advantages of the invention will be set forth in the detailed description which now follows.

In the accompanying drawing: Figure 1 is a longitudinal vertical section of a mailing machine constructed in accordance with the invention, Fig. 2 is a front end elevation of said machine, Fig. 3 is a partial side elevation of said machine, and, Fig. 4 is a detail perspective view of a guide member hereinafter described.

Like numerals designate corresponding parts in all of the figures of the drawing.

Referring to the drawing, the numeral 5 designates a supporting framework which is provided with transverse members 6 and over two of these transverse members, the hooked ends 7 of a mucilage or water box 8, are adapted to engage. It will be seen that by moving this box rearwardly, these hooked ends may be disengaged from the members 6 and the box removed from the machine.

Secured to the side members 5 of the frame by screws 9 are the upwardly extending ears 10 of a transverse plate 11. This plate carries a stud 12 upon its under surface and a stud 13 upon its upper surface. A slotted portion 14 of a guide plate 15 is adapted to engage the stud 13, while the slotted portion 16 of this guide plate 15 is adapted to engage the stud 12. It will therefore be seen that the guide plate 15 is removably held by these studs upon the transverse plate 11. This guide plate is provided with turned-over edges 17 and acts to guide a sheet of stamps or a mailing list 18. This sheet of stamps or the mailing list may be wound upon a shaft 19, which in this case has been illustrated as a hollow shaft. This shaft projects through the side walls of the members

5 and has a handle 20 secured thereto, by which rotation may be imparted to the shaft to wind the mailing list or the sheet of stamps thereon.

A mucilage or moistening roller 21 is mounted upon a shaft 22 which is journaled in cut-out portions 23 in the box 8. The strip 18 passes over this roller and under a second grooved feeding roller 24 which is mounted upon a shaft 25 and journaled between the side members 5 of the frame. A knife 26 is secured in position at the front edge of the frame and this knife is adapted to coact with a pivoted knife 27. The knife 27 is pivoted at 28 to the frame and is connected by a link 29 to the outturned end 30 of a bar 31. The inner end of this bar is pivoted at 32 between standards 33 of the frame and this bar carries a handle 34 and a roller 35. This roller 35 is adapted to engage a finger 36 which has a cam surface 37 formed thereon. This finger is fast upon a transverse shaft 38 and this shaft 38 is continued downwardly upon the outside of the frame to form a crank arm 39. This crank arm is connected at its outer end 40 with a pawl 41 and this pawl is adapted to engage teeth 42 of a ratchet wheel 43 and this ratchet wheel 43 is in turn fast upon the shaft 25. A pin 44 overlies the pawl and serves a purpose which will be hereinafter described.

A friction roller 45 which is preferably rubber covered, is carried by arms 46 which are integral with the shaft 47 and this shaft is in turn journaled at 48 in the side members of the frame. One of the arms 46 has a forwardly extending portion 49 beneath which a spring 50 bears, this spring normally tending to hold the friction roller 45 into engagement with the strip 18. By pressing upon the outer end of the extension 49, however, this roller may be pressed away from the strip.

A guide rod 51 extends between transverse members 52 of the frame and a spring 53 surrounds this guide rod and normally tends to elevate the bar 31. A knurled stud 54 is carried by the shaft 25 and provides means for manually rotating the roller 24 when the strip 18 is first being fed into position. A guide rod 55 extends across the front of the frame of the machine and the strip 18 is fed beneath this guide rod. A spring 56 is wound upon the shaft 38 and normally tends to throw the pawl 41 for-

wardly and to hold the finger 36 into engagement with the roller 35. A spring 57 encircles the pivot screw 28 (see Fig. 1) and exerts a spring tension between the knife 26 and the knife 27.

The operation of the device is as follows: When the handle 34 is grasped and pressed downwardly the roller 35 is caused to move over the cam surface 37 to throw the finger 36 forwardly. This thrusts the crank 39 rearwardly and causes the pawl 41 to engage the teeth of the ratchet wheel to impart a partial rotation to the feed roller 24. This feeds a given portion of the strip 18 over the edge of the knife 26. The feeding is applied after the roller has traveled over the cam surface 37, but the handle 34 travels still farther downwardly to cause the swinging knife 27 to move across the edge of the knife 26 to cut the projecting portion of the strip therefrom. The flat portion 58 of the knife presses the cut-off portion of the strip into engagement with the article to be stamped. It will of course be understood that as the strip moved over the roller 21, it was either moistened or mucilaged according to whether mucilage or water was contained in the box 8. In the case of postage stamps, water would be placed in this box, but in the case of mailing lists, mucilage would be placed in this box. After the pawl has been thrown to its rearward limit of movement, the tail 41' thereof is engaged by the pin 44 to prevent the pawl from lifting and accidental movement of the feed roller is thereby prevented.

From the foregoing description, it will be seen that simple and efficient means are herein provided for accomplishing the objects of the invention, but while the elements shown and described are well adapted to serve the purposes for which they are intended, it is to be understood that the invention is not limited to the precise construction set forth, but includes within its purview such changes as may be made within the scope of the appended claims.

What I claim, is:

1. In a device of the character described, the combination with a supporting frame, of

a moistening roll and a feeding roll mounted in said frame, a fixed knife carried by said frame, a movable knife, a pivoted bar, connections between said pivoted bar and said movable knife, a cam member, a member carried by the pivoted bar and adapted to engage said cam member, a pawl, a connection between said pawl and said cam member, a ratchet carried by the feed roll and adapted to be engaged by said pawl, a removable guide, and a spindle adapted to receive a roll of material, said spindle lying in alignment with said removable guide.

2. In a device of the character described, the combination with a supporting frame, of a mucilage box removably mounted in said frame, a mucilage roller journaled in the walls of said box, a knife pivoted to the supporting frame, a pivoted bar, a link connecting the outer end of said bar and said knife, a cam finger, a member carried by the pivoted bar and adapted to engage said cam finger, a feed roller, a ratchet carried by the feed roller, a pawl adapted to engage said ratchet, a connection between said pawl and said cam finger, and a locking pin adapted to engage the upper surface of said pawl when it is at its rearmost limit of movement.

3. In a device of the character described, the combination with a frame of a feeding roller mounted therein, a moistening mechanism mounted therein, a transverse shaft, a crank carried by said shaft, a pawl and ratchet connection between said crank and the feeding roller, a vertically disposed member carried by the shaft and having a cam formed thereon, a knife, a longitudinally extending, pivoted bar connected at its rear end to a portion of the frame, means for connecting the free end of said bar to the knife and a member carried by the bar adapted to engage the cam of the vertically disposed member.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT D. SIMPSON.

Witnesses:

L. CARL STOUGHTON,
A. L. PHELPS.